Redstone Concept Panel
Common Application Support CSCI

Primary Development Support CSCI to User Display Monitor & Plotting Thread

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OVERVIEW

- CLCS Application Software design is object oriented to maximize potential for code reuse. All code and graphical reuse elements must be readily identifiable and accessible.

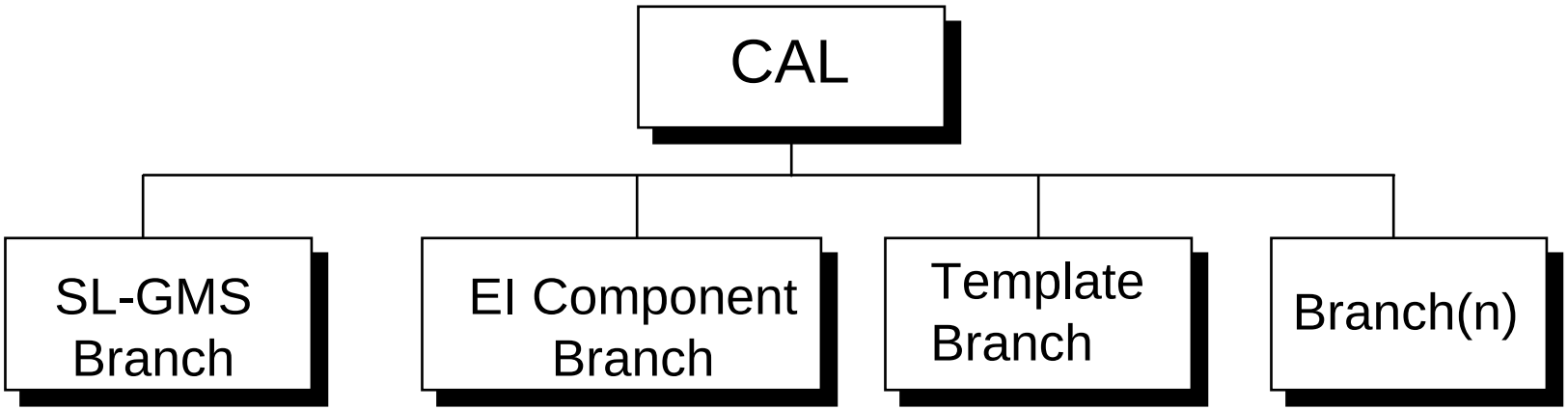
The Common Application Library (CAL) is the Application Software reuse component repository.

ELEMENTS REQUIRED FOR REUSE

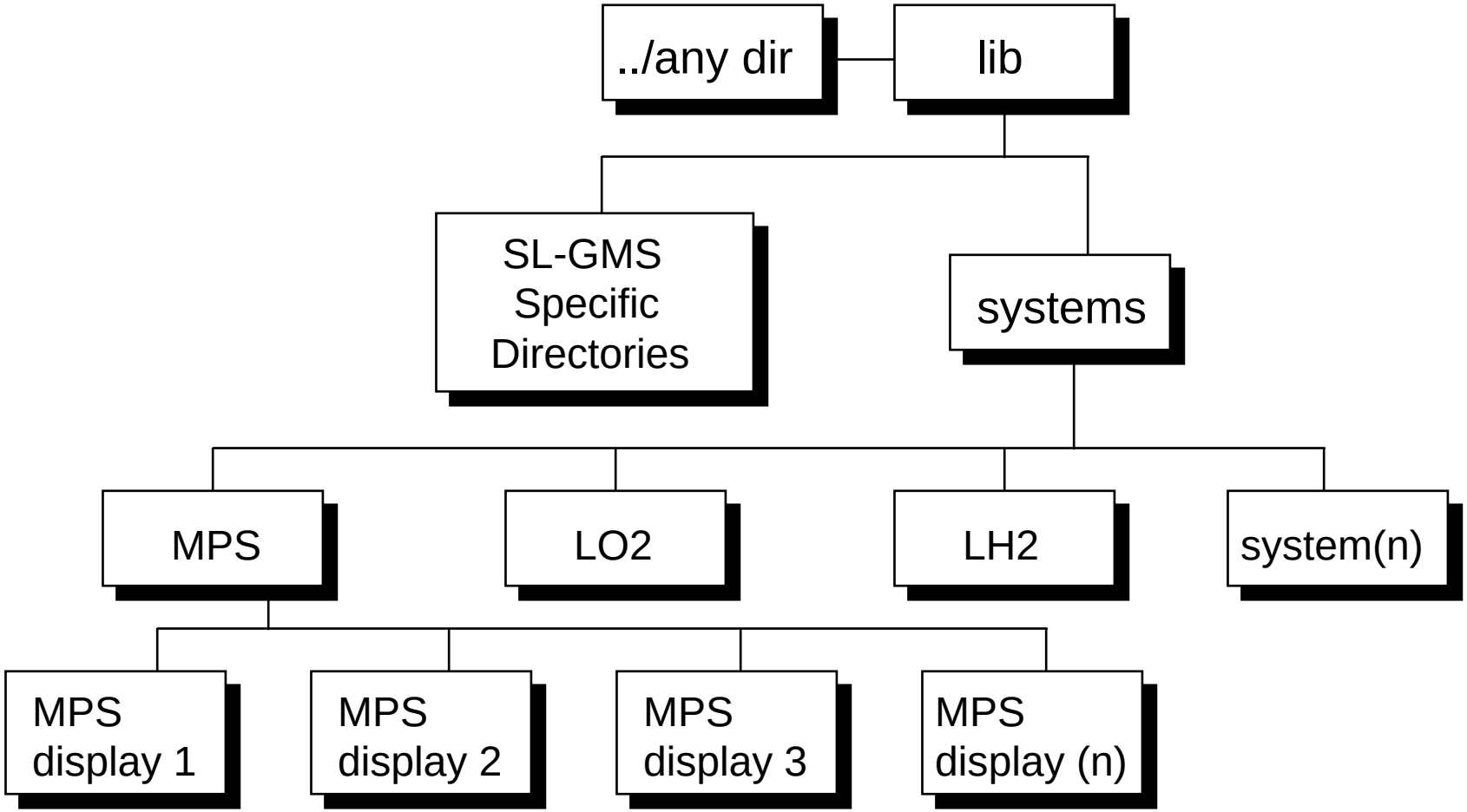
- Objects designed for reuse
- Common repository (library)
- Library content browser

COMMON APPLICATION LIBRARY (CAL) STRUCTURE

- Overall Library Structure
  - CAL composed of multiple branches
  - Branches based on software type, language, base tool, etc.



SL-GMS Library Branch



LIBRARY STRUCTURE DIAGRAM

- SL-GMS Branch Structure
  - Tool Requires specific directory structure
  - Directory structure must be supported in development & operational environments

GENERAL LIBRARY REQUIREMENTS & PROCESS

*Library concept requires Administrator(s) to maintain configuration.

*Library component design meets system specific requirements.

*Library components are fully validated prior to library insertion.

*Reuse components must be in library prior to use.

Process includes:

- Software design identification of reuse component
- Search library for potential candidates, use as applicable
- Develop/debug code/graphics if no library component match
- Submit component for Checkout, Test and Validation (CTV)
  - Package includes current component documentation
- Administrator adds component and documentation to library when CTV successfully completed
- Library component available for general use

DOCUMENTATION INTERFACE

Documentation interface currently in requirements capture phase of design to support code and graphical objects.

Investigating fit of Razor as library browser interface.

DELIVERABLES

Meets requirements for direct primary development support to User Display Monitor and Plotting Thread with building block components for displays.

Reuse component library general design, implemented with SL-GMS Library Branch.

SL-GMS Library Branch populated with all graphical components required to support SLWT displays.

SCHEDULE

- Library Definition
  - *Complete for SL-GMS Branch and general library structure*
- Populate SL-GMS Library Branch
  - *In work, continuous, parallels display development*
  - *75% complete for SLWT components*
- SL-GMS Library Documentation
  - *In work, continuous, parallels population of SL-GMS Library Branch*